

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp          |
|-------|------|---|------------------------|------------------|---------|---------------------|
| S1    | 70   | "1415516"   "1906184"   "2183517"   "2242759"  <br>"2443524"   "2621137"   "2700606"   "2761776"  <br>"2861882"   "2937939"   "2992095"   "20010036056"  <br>"20020028175"   "20020114722"   "20020135973"  <br>"20030104923"   "20030117766"   "20030147203"  <br>"20030170169"   "20030205106"   "3421195"   "3647420"  <br>"3665260"   "3849124"   "3926832"   "3962715"  <br>"4032328"   "4059442"   "4118727"   "4126493"  <br>"4186423"   "4201798"   "4406699"   "4428856"  <br>"4483819"   "4722756"   "4748737"   "4805074"  <br>"4923531"   "4960471"   "4964906"   "5011742"  <br>"5013357"   "5022935"   "5171379"   "5211741"  <br>"5245514"   "5369547"   "5412533"   "5448447"  <br>"5470525"   "5825611"   "0599513"   "6007597"  <br>"6051044"   "6051326"   "6136062"   "6165623"  <br>"6312642"   "6322912"   "6373685"   "6391275"  <br>"6416730"   "6462934"   "6527937"   "6576038"  <br>"6576099"   "6592740"   "6639787"   "6759026").PN. | US-<br>PGPUB;<br>USPAT | ADJ              | OFF     | 2007/10/09<br>15:53 |
| S2    | 648  | (423/594.17 OR 423/594.8 OR 423/62).ccls.   | US-<br>PGPUB;<br>USPAT | ADJ              | OFF     | 2007/10/09<br>15:33 |

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| S3  | 70   | "1415516"   "1906184"   "2183517"   "2242759"  <br>"2443524"   "2621137"   "2700606"   "2761776"  <br>"2861882"   "2937939"   "2992095"   "20010036056"  <br>"20020028175"   "20020114722"   "20020135973"  <br>"20030104923"   "20030117766"   "20030147203"  <br>"20030170169"   "20030205106"   "3421195"   "3647420"  <br>"3665260"   "3849124"   "3926832"   "3962715"  <br>"4032328"   "4059442"   "4118727"   "4126493"  <br>"4186423"   "4201798"   "4406699"   "4428856"  <br>"4483819"   "4722756"   "4748737"   "4805074"  <br>"4923531"   "4960471"   "4964906"   "5011742"  <br>"5013357"   "5022935"   "5171379"   "5211741"  <br>"5245514"   "5369547"   "5412533"   "5448447"  <br>"5470525"   "5825611"   "0599513"   "6007597"  <br>"6051044"   "6051326"   "6136062"   "6165623"  <br>"6312642"   "6322912"   "6373685"   "6391275"  <br>"6416730"   "6462934"   "6527937"   "6576038"  <br>"6576099"   "6592740"   "6639787"   "6759026").PN. | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>11:25 |
| S5  | 1478 | (423/594.17 OR 423/594.8 OR 423/62 OR 419/19).ccls.   | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>11:26 |
| S6  | 1642 | (423/594.17 OR 423/594.8 OR 423/62 OR 75/255).ccls.   | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>15:34 |
| S16 | 212  | (valve metal OR niobium) AND suboxide AND oxide AND<br>phase  | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/10<br>07:52 |
| S17 | 4    | S16 and S6  | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/09<br>15:56 |
| S18 | 40   | (valve metal OR niobium) AND (suboxide AND oxide) SAME<br>phase   | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/09<br>15:58 |

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| S19 | 2  | ("6849104" OR "6701357").pn.  | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>16:05 |
| S20 | 9  | (US-20020114722-\$ or US-20020028175-\$ or US-20010036056-\$).did. or (US-6416730-\$ or US-4201798-\$ or US-6165623-\$ or US-6462934-\$ or US-6849104-\$ or US-5441670-\$).did.   | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>16:54 |
| S21 | 1  | S20 and S18   | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>16:16 |
| S22 | 70 | "1415516"   "1906184"   "2183517"   "2242759"  <br>"2443524"   "2621137"   "2700606"   "2761776"  <br>"2861882"   "2937939"   "2992095"   "20010036056"  <br>"20020028175"   "20020114722"   "20020135973"  <br>"20030104923"   "20030117766"   "20030147203"  <br>"20030170169"   "20030205106"   "3421195"   "3647420"  <br>"3665260"   "3849124"   "3926832"   "3962715"  <br>"4032328"   "4059442"   "4118727"   "4126493"  <br>"4186423"   "4201798"   "4406699"   "4428856"  <br>"4483819"   "4722756"   "4748737"   "4805074"  <br>"4923531"   "4960471"   "4964906"   "5011742"  <br>"5013357"   "5022935"   "5171379"   "5211741"  <br>"5245514"   "5369547"   "5412533"   "5448447"  <br>"5470525"   "5825611"   "0599513"   "6007597"  <br>"6051044"   "6051326"   "6136062"   "6165623"  <br>"6312642"   "6322912"   "6373685"   "6391275"  <br>"6416730"   "6462934"   "6527937"   "6576038"  <br>"6576099"   "6592740"   "6639787"   "6759026").PN. | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>16:55 |
| S23 | 24 | (S20 OR S22 OR S19) AND flow  | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2007/10/09<br>16:55 |
| S24 | 29 | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND secondary AND tertiary  | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/10<br>08:14 |

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| S26 | 1    | US-20020066338-\$.did.   | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/10<br>08:09 |
| S27 | 95   | (valve metal OR niobium OR tantalum OR aluminum OR zirconium OR titanium OR bismuth OR antimony) AND suboxide AND oxide AND secondary AND tertiary | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2007/10/10<br>08:15 |
| S28 | 1    | ("2003/0230167").URPN.   | USPAT                  | ADJ | OFF | 2007/10/11<br>08:32 |
| S29 | 346  | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND phase  | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:01 |
| S30 | 1707 | (423/594.17 OR 423/594.8 OR 423/62 OR 75/255).cds.   | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2008/06/24<br>17:01 |
| S31 | 6    | S29 and S30  | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:01 |
| S32 | 2    | (valve metal OR niobium OR tantalum) AND suboxide AND oxide ((suboxide OR oxide) SAME phase)   | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:03 |
| S33 | 212  | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND ((suboxide OR oxide) SAME phase)   | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:03 |
| S34 | 152  | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND ((suboxide OR oxide) WITH phase)   | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:04 |
| S35 | 90   | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND ((suboxide OR oxide) WITH phase) AND (metal WITH phase)                            | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:04 |
| S36 | 12   | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND ((suboxide OR oxide) WITH phase) AND (metal phase)                                 | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2008/06/24<br>17:40 |

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|-----|------|---|------------------------------|-----|-----|---------------------|
| S38 | 15   | (valve metal OR niobium OR tantalum OR aluminum OR titanium OR zirconium) AND suboxide AND oxide AND ((suboxide OR oxide) WITH phase) AND (metal phase) | US-PGPUB;<br>USPAT           | ADJ | ON  | 2008/06/25<br>11:12 |
| S39 | 12   | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND ((suboxide OR oxide) WITH phase) AND (metal phase)                                      | US-PGPUB;<br>USPAT           | ADJ | ON  | 2008/06/25<br>11:13 |
| S40 | 3    | S38 NOT S39   | US-PGPUB;<br>USPAT           | ADJ | ON  | 2008/06/25<br>11:13 |
| S41 | 6    | ("5019454"   "5447803"   "5733489"   "5980602"   "6080496"   "6284014").PN. OR ("6699303").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/06/25<br>11:32 |
| S42 | 380  | (valve metal OR niobium OR tantalum) AND suboxide AND oxide AND phase   | US-PGPUB;<br>USPAT           | ADJ | ON  | 2009/03/17<br>15:48 |
| S43 | 680  | (valve metal OR niobium OR tantalum) AND suboxide AND oxide   | US-PGPUB;<br>USPAT           | ADJ | ON  | 2009/03/17<br>15:48 |
| S44 | 411  | S43 and flow  | US-PGPUB;<br>USPAT           | ADJ | ON  | 2009/03/17<br>15:59 |
| S45 | 1762 | (423/594.17 OR 423/594.8 OR 423/62 OR 75/255).ccl.s.  | US-PGPUB;<br>USPAT           | ADJ | OFF | 2009/03/17<br>16:02 |
| S46 | 22   | S44 and S45   | US-PGPUB;<br>USPAT           | ADJ | OFF | 2009/03/17<br>16:02 |
| S47 | 18   | S44 and (ASTM B213 OR ASTM B "213")   | US-PGPUB;<br>USPAT           | ADJ | ON  | 2009/03/17<br>16:32 |

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|-----|------|---|------------------------|-----|-----|---------------------|
| S48 | 88   | flow and (ASTM B213 OR ASTM B "213") and oxide      | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2009/04/07<br>16:23 |
| S49 | 1800 | (423/594.17 OR 423/594.8 OR 423/62 OR 75/255).ccls. | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:43 |
| S50 | 4221 | (361/528;419/10;419/19;75/232;428/472).ccls.        | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:44 |
| S51 | 1177 | S50 and (Nb or niobium)                             | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:44 |
| S52 | 415  | S51 and flow  | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:44 |
| S53 | 366  | S52 and (\$3oxide)                                  | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:45 |
| S54 | 1005 | S51 and (\$3oxide)                                  | US-<br>PGPUB;<br>USPAT | ADJ | OFF | 2009/09/29<br>01:45 |
| S56 | 166  | S53 and ((nb OR niobium) WITH \$3oxide)             | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2009/09/29<br>01:46 |
| S57 | 87   | S56 and anode                                       | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2009/09/29<br>01:48 |
| S58 | 18   | S57 and suboxide                                    | US-<br>PGPUB;<br>USPAT | ADJ | ON  | 2009/09/29<br>01:48 |

9/ 29/ 2009 11:42:18 AM

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